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Clay gypsum is one of the oldest binding materials known in Central Asia. It was used by Turkmens as far back as the 12th century. An arched bridge built across the Murgab River in the 14th century with the use of clay-gypsum has survived for 5 centuries and is proof of the high qualities of this local construction material.

This material is of special importance at present, when extensive construction work has begun in Central Asia. Construction of the Main Turkmen Canal and of new cities and kolkhoz villages requires huge quantities of local building materials. The canal is to run across the Ust'-Urt Plateau and the Kara Kumy desert, where the clay-gypsum deposits are located. Clay gypsum is easily quarried and processed, a fact which makes it an inexpensive material.

The Moscow Institute "Giprogniz" State Institute for Planning Enterprises of the System Industry has been authorized to investigate the possibilities of utilizing clay gypsum in the construction of the Main Turkmen Canal. Plans are to be worked out in the near future. A GOST plan and technical specifications for clay gypsum will also be drawn up.

FAIL TO EXPLOIT CRIMEAN RESOURCES - Przemyslanost. Stroitel'nykh Materialov, 29 May 50

The Crimean Oblast has rich deposits of minerals for the production of good, inexpensive construction materials such as bricks, tiles, wall stone, and all kinds of facing materials. The oblast has over 130 deposits of shell limestone, about 30 deposits of marble-like limestone of various colors, numerous deposits of marl, gravel, and gypsum stone, and an unlimited quantity of high-grade clay, suitable not only for brick and tile production but also for hollow ceramic products used as facing material. However, all of these mineral resources are being very poorly utilized. Stone quarrying is organized only in one third of the entire area of limestone deposits and it is done by small units of industrial cooperatives, construction organizations, kolkhozes, and small plants of the Crimean Oblast Administration of Construction Materials Industry. In most cases quarrying is done by manual labor. This results in low labor productivity and high production costs. For example, at the Simferopolskiy quarry of the Simferopol' Seven Industrial Combine, one stone block costs about 2 rubles, whereas the cost of a similar block at the mechanized Ukrainian plant is 60-70 kopeks. Large deposits of limestone are being exploited without proper technical supervision and are therefore in an extremely neglected condition. For example, in the region of Perekop where the Ministry of Chemical Industry is in charge of stone quarrying, valuable deposits of limestone are in such poor condition that it is impossible to exploit them any further.

The same situation exists in sand quarries. There are only five small sand quarries operating in the entire oblast. They are not mechanized and are scattered over various organizations. As a result, Simferopol', Kerch, and cities and villages of the southern Crimean coast have a shortage of sand, which should actually be a cheap and plentiful building material. The sand which construction organizations of Simferopol' haul from a distance of 20-35 kilometers contains up to 40 percent clay and other harmful ingredients. Due to transport costs and the low quality of the sand, its cost is increased up to 10 percent.

The oblast also has large reserves of marble-like limestone, which is well-known to architects and builders. There was a time when this remarkably decorative facing material was in great demand both in the oblast and other parts of the country. However, local organizations and the Ministry of Construction Materials Industry RSFSR have apparently forgotten all about it. The limestone-quarrying enterprises destroyed during the war have not been restored and new ones are not being organized.

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An entirely forgotten branch of industry in the Crimean Oblast is the production of steps, tiles, etc., of diorite. Before the war, diorite of Al'minskiy Rayon was shown at international exhibitions as one of the types of high-grade building materials.

The large increase in industrial and civilian construction in the Crimean Oblast has resulted in an increasing demand for cement. Thousands of tons of cement are shipped to the Crimea from places hundreds of kilometers distant. It would be possible, however, to organize cement production at two of the marl deposits situated near the railroad line and thereby provide a sufficient supply of cement for the oblast.

There is also a shortage of gypsum for construction purposes. The new gypsum plant provides only about 10 percent of the required gypsum. Serious attention should be given to lake gypsum which is found in Saks'kiy Rayon. It would be possible to obtain many thousands of tons of high-grade gypsum at this location without any capital investments.

Scientific institutes should participate more actively in the development of the Crimean construction materials industry. There are a number of scientific research institutes in the Crimea, including the Affiliate of the Academy of Sciences USSR and the Crimean Scientific Research Laboratory of Construction Materials Industry under the Administration of Construction Materials Industry. However, the work of these institutes is not coordinated.

The Ministry of Construction Materials Industry USSR must give serious consideration to the utilization of Crimean mineral resources and give the necessary aid to the oblast administration.

CENTRAL QUARRIES NEED REORGANIZATION -- Vecherniyaya Moskva, 15 Aug 50

It is necessary to expand the quarrying and processing of nonmetallic minerals. This branch of industry has been greatly neglected. The principal quarries of Moscow Oblast and adjoining oblasts should be subordinated to the Ministry of Construction Materials Industry USSR, reorganizing the "Rossnerud" Trust which existed before the war.

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